

| Exploring the Extreme | | | |
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| 2000 Mathematics | | | |
| Model Academic Standards | | | |
| Wisconsin Mathematics | | | |
| Grades K-4 | | | |
| Activity/Lesson | State | Standards | |
| Finding the Center of Gravity Using Rulers | WI | MA.K-4.A.4.2 | Communicate mathematical ideas in a variety of ways, including words, numbers, symbols, pictures, charts, graphs, tables, diagrams, and models |
| Finding the Center of Gravity Using Plumb Lines | WI | MA.K-4.A.4.2 | Communicate mathematical ideas in a variety of ways, including words, numbers, symbols, pictures, charts, graphs, tables, diagrams, and models |
| Changing the Center of Gravity Using Moment Arms | WI | MA.K-4.A.4.2 | Communicate mathematical ideas in a variety of ways, including words, numbers, symbols, pictures, charts, graphs, tables, diagrams, and models |
| Changing the Center of Gravity Using Moment Arms | WI | MA.K-4.D.4.3 | Read and interpret measuring instruments (e.g., rulers, clocks, thermometers) |
| Changing the Center of Gravity Using Moment Arms | WI | MA.K-4.E.4.3 | In problem-solving situations, read, extract, and use information presented in graphs, tables, or charts |
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| Exploring the Extreme | | | |
| 2000 Mathematics | | | |
| Model Academic Standards | | | |
| Wisconsin Mathematics | | | |
| Grades 5-8 | | | |
| Activity/Lesson | State | Standards | |
| Jet Propulsion | WI | MA.5-8.A.8.2 | Communicate logical arguments clearly to show why a result makes sense |
| Jet Propulsion | WI | MA.5-8.E.8.1.a | formulating questions that lead to data collection and analysis |
| Vectoring | WI | MA.5-8.A.8.2 | Communicate logical arguments clearly to show why a result makes sense |
| Vectoring | WI | MA.5-8.E.8.1.a | formulating questions that lead to data collection and analysis |
| Center of Gravity, Pitch, Yaw | WI | MA.5-8.B.8.1 | Read, represent, and interpret various rational numbers (whole numbers, integers, decimals, fractions, and percents) with verbal descriptions, geometric models, and mathematical notation (e.g., expanded, scientific, exponential) |
| Center of Gravity, Pitch, Yaw | WI | MA.5-8.B.8.5.b | percents, including those greater than 100 and less than one (e.g., discounts, rate of increase or decrease, sales tax) |
| Fuel Efficiency | WI | MA.5-8.A.8.2 | Communicate logical arguments clearly to show why a result makes sense |
| Fuel Efficiency | WI | MA.5-8.F.8.1.a | using appropriate symbolism, including exponents and variables |

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| Fuel Efficiency | WI | MA.5-8.F.8.4.c | writing and evaluating formulas (including solving for a specified variable) |
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